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APPLICATION NO.	. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,539	02/27/2004	Bruno De Man	129405-1/YOD GERD:0049	9455
759	90 10/27/2006		EXAM	INER
Patrick S. Yoder		SONG, HOON K		
Fletcher Yoder		ART UNIT	PAPER NUMBER	
P.O. Box 692289			ARTONI	TAI ER NOMBER
Houston, TX 77269-2289			2882	

DATE MAILED: 10/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commence	10/789,539	DE MAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Hoon Song	2882				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 18 Au	1) Responsive to communication(s) filed on 18 August 2006.					
·— · · · · · · · · · · · · · · · · · ·	action is non-final.					
•—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1,7-10,13,14,16-19,21,23-26,29-35,38 and 39</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1,7-10,13,14,16-19,21,29-35,38 and 39</u> is/are allowed.						
6)⊠ Claim(s) <u>23-26</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>27 February 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
7) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/18/2006 has been entered.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 23-26 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claim 23 claim(s) a computer program. Computer programs are not physical "things." They are neither computer components nor statutory processes, as they are not "acts" being performed. Such claimed computer programs do not define any structural and functional interrelationships between the computer program and other claimed elements of a computer, which permit the computer program's functionality to be realized. In contrast, a claimed computer-readable medium encoded with a computer program is a computer element which defines structural and functional interrelationships between the computer program and the rest of the computer which permit the computer program's functionality to be realized, and is thus statutory.

Allowable Subject Matter

Claims 1, 7-10, 13-14, 16-19, 21, 29-35 and 38-39 are allowed.

Regarding claims 1, 7-10, 13-14, 16, 31-35 and 38-39, the prior art fails to teach a CT imaging system having a rotatable detector array with a plurality of detector elements configured to generate one or more signals in response to radiation emitted by two or more emission points and a system controller configured to control the two or more emission points such that the flux of the radiation emitted by the respective emission points is determined based on at least one of the respective view relative to the filed of view or a path length through a patient at the respective view as claimed in independent claim 1.

Regarding claims 17-19 and 21, the prior art fails to teach a method for CT imaging by emitting respective streams of radiation from each of two or more x-ray offset emitters such that the x-ray emitters sample substantially different portions of a field of view, determining flux of the radiation emitted by the respective emission points based on at least one of the respective view relative to the field of view or path length through a patient at the respective view and acquiring a plurality of signals from a rotatable detector wherein the plurality of signals are generated in response to the respective streams of radiation as claimed in independent claim 17.

Regarding claims 29, the prior art fails to teach a CT imaging system having an x-ray controller configured to differentially activate two or more emission points such that at least one of the number of activation, the duration of activation, or the energy or the flux of the emitted radiation differ based on the respective view or based on a path

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length through a patient at the respective view and a rotatable detector array with a plurality of detector element configured to generate one or more signals in response to the radiation emitted by the two or more emission points as claimed in independent claim 29.

Regarding claims 30, the prior art fails to teach a CT imaging system having a rotatable detector array with a plurality of detector elements configured to generate one or more signals in response to emitted x-ray from a x-ray source with two or more emission points that passed through substantially non-overlapping regions of a filed of view and a system controller configured to differentially operate the two or more emission points to maintain a substantially uniform flux profile at the detector array as claimed in independent claim 30.

Response to Arguments

Applicant's arguments with respect to claim 23-26 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoon Song whose telephone number is (571) 272-2494.

The examiner can normally be reached on 9:30 AM - 7 PM, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Glick can be reached on (571) 272 - 2490. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HKS